

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1211141

Luminaire Tested: **ARCH4-180-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29040 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



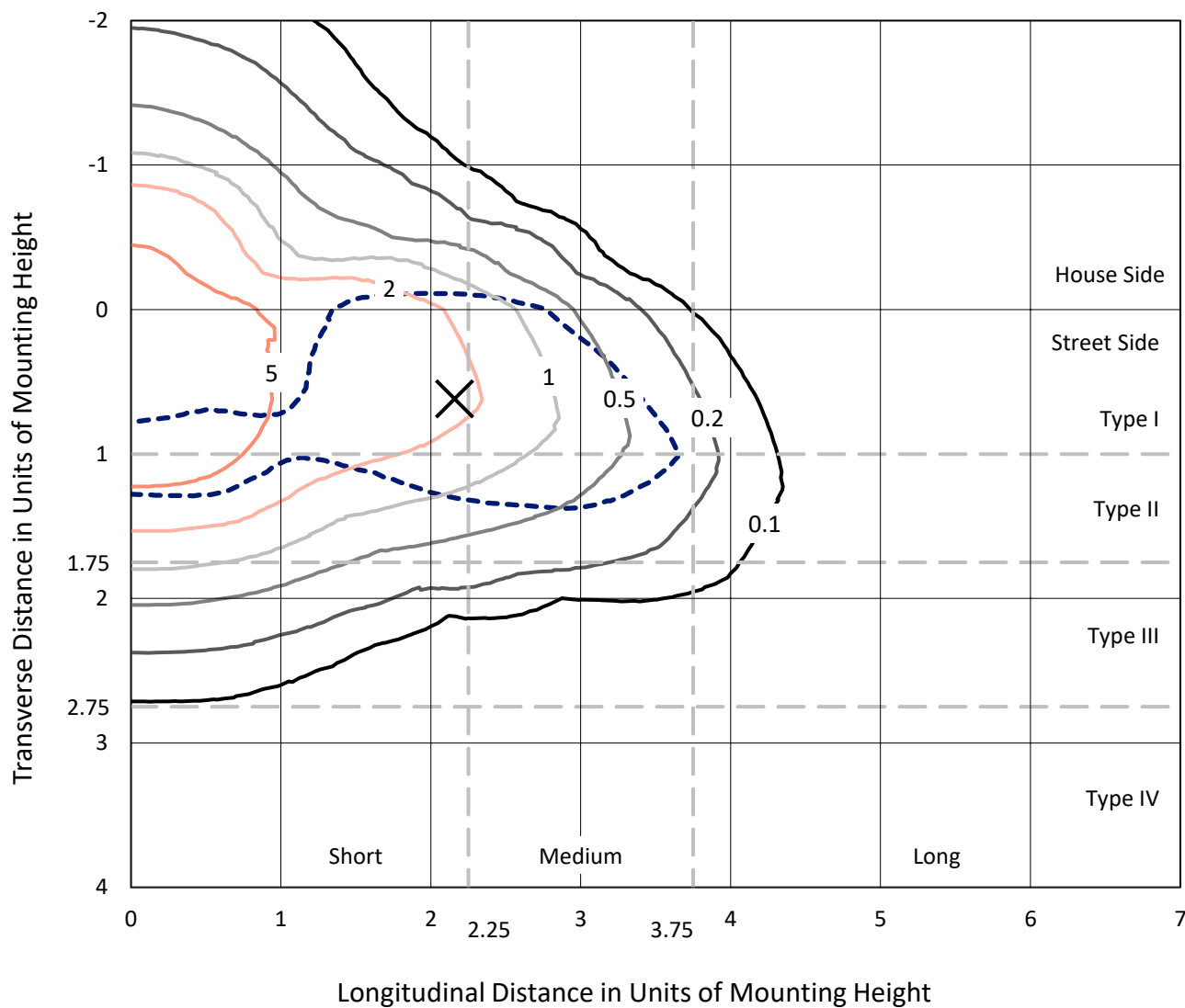
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

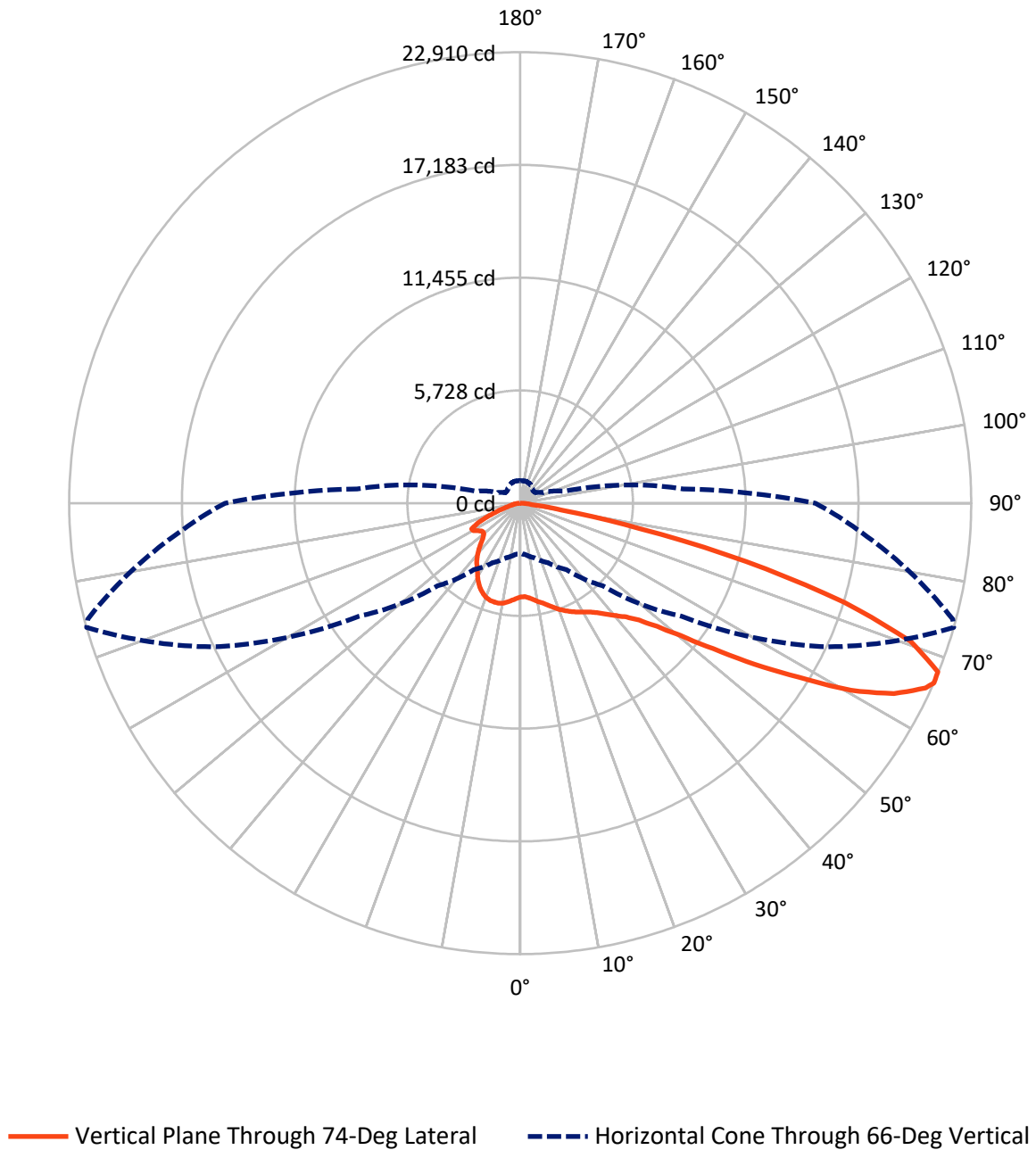
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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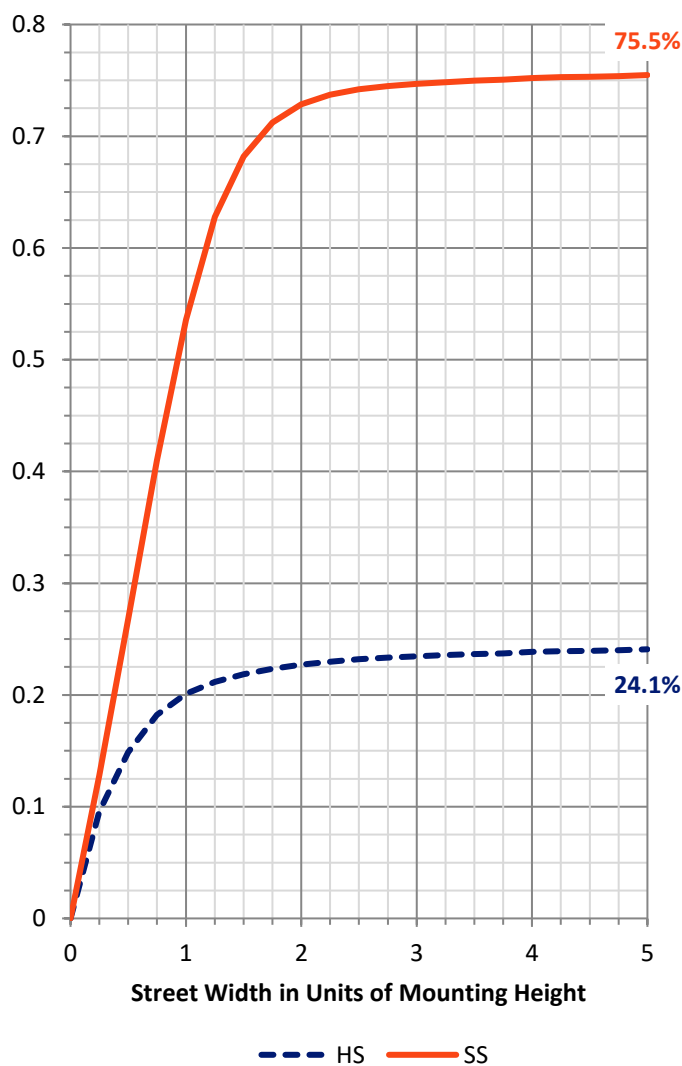
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7072.0	0.0	7072.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	21968.0	0.0	21968.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	29040.0	0.0	29040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.1	1.6
10°-20°	1396.5	4.8
20°-30°	2620.6	9.0
30°-40°	4031.1	13.9
40°-50°	5422.1	18.7
50°-60°	6412.3	22.1
60°-70°	5931.7	20.4
70°-80°	2495.4	8.6
80°-90°	276.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29040.0	100.0
0°-180°	29040.0	100.0

Coefficient of Utilization



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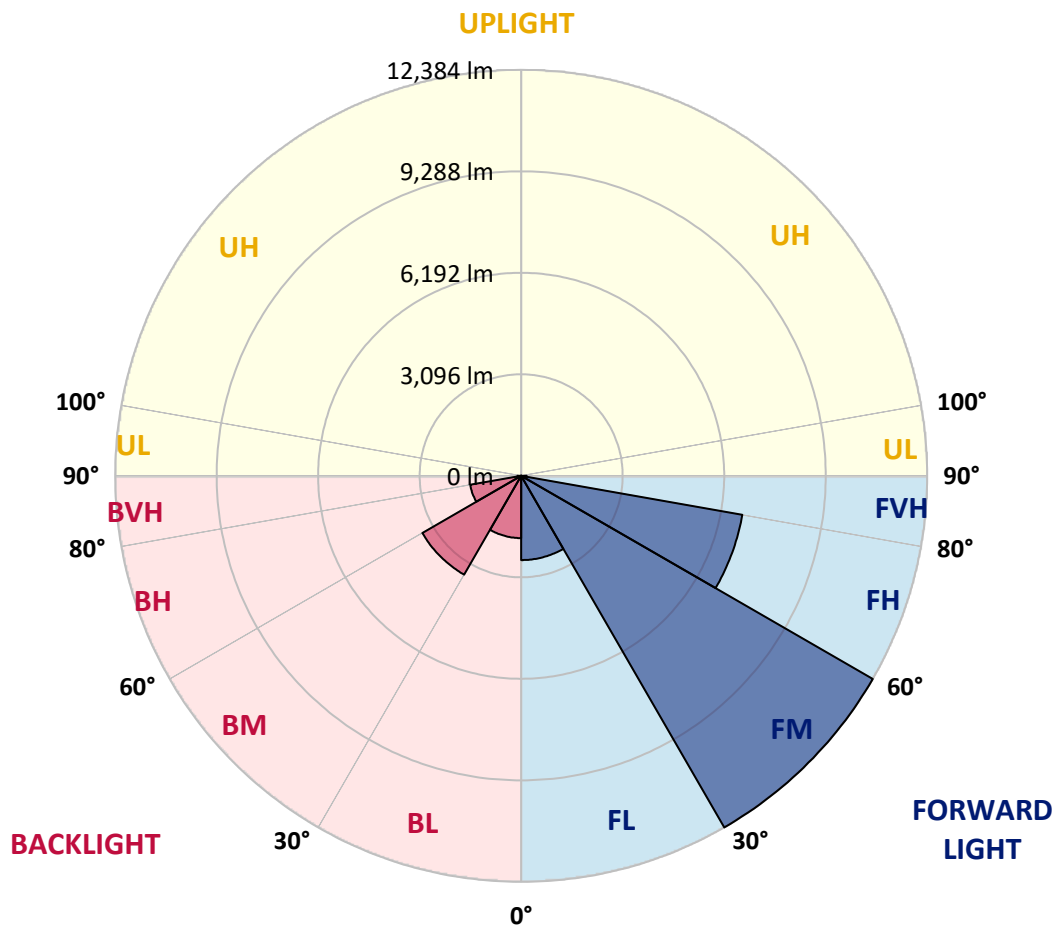
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2570.4	8.9			
FM	(30°-60°)	12383.9	42.6			
FH	(60°-80°)	6848.4	23.6			G3/7500
FVH	(80°-90°)	165.2	0.6			G2/225
BL	(0°-30°)	1900.8	6.5	B3/2500		
BM	(30°-60°)	3481.6	12.0	B3/5000		
BH	(60°-80°)	1578.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	110.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6
2.5°	4745.7	4738.2	4753.1	4775.6	4786.8	4768.1	4760.6	4756.9	4756.9	4745.7	4764.4
5°	4521.5	4517.7	4551.4	4592.5	4670.9	4727.0	4801.7	4846.6	4831.6	4809.2	4824.1
7.5°	4230.0	4222.5	4263.6	4342.1	4450.5	4573.8	4756.9	4898.9	4954.9	4947.5	4943.7
10°	4342.1	4334.6	4330.9	4308.5	4345.8	4465.4	4656.0	4906.4	5096.9	5100.7	5104.4
12.5°	4730.7	4749.4	4730.7	4659.7	4577.5	4532.7	4644.8	4925.0	5216.5	5238.9	5332.3
15°	5261.3	5242.7	5205.3	5123.1	4996.0	4861.5	4779.3	5011.0	5388.4	5407.1	5612.6
17.5°	5728.4	5743.4	5721.0	5642.5	5493.0	5317.4	5067.0	5160.5	5571.5	5623.8	5911.5
20°	6236.6	6296.4	6266.5	6169.4	6046.1	5784.5	5470.6	5377.2	5773.3	5810.6	6221.7
22.5°	6823.3	6886.8	6830.8	6737.4	6636.5	6315.1	5911.5	5642.5	5941.4	6019.9	6520.6
25°	7525.8	7585.6	7533.3	7387.6	7260.5	6868.1	6386.1	5941.4	6105.9	6191.8	6763.5
27.5°	8082.6	8127.4	8176.0	8090.1	7895.8	7488.5	6879.4	6251.6	6270.3	6360.0	6987.7
30°	8579.6	8691.7	8732.8	8744.0	8579.6	8123.7	7383.8	6572.9	6412.3	6505.7	7211.9
32.5°	9259.7	9427.8	9360.6	9427.8	9330.7	8721.6	7907.0	6905.5	6595.4	6681.3	7424.9
35°	10253.6	10388.2	10212.5	10160.2	10003.3	9326.9	8411.4	7249.3	6838.3	6931.7	7626.7
37.5°	11322.4	11475.6	11221.5	11012.2	10713.3	9924.8	8844.9	7701.4	7174.6	7249.3	7813.5
40°	12256.5	12383.6	12163.1	11886.6	11385.9	10451.7	9218.6	8019.1	7510.9	7604.3	8030.3
42.5°	13119.7	13201.9	12955.3	12690.0	12021.1	10926.3	9622.1	8355.4	7903.2	7992.9	8205.9
45°	13994.1	14057.7	13713.9	13336.5	12551.7	11359.7	10066.8	8826.2	8478.7	8598.3	8489.9
47.5°	14151.1	14169.8	14110.0	13855.9	12970.3	11774.5	10616.1	9457.7	9356.8	9487.6	8979.4
50°	13063.7	13231.8	13601.8	13852.1	13138.4	12122.0	11165.4	10362.0	10567.5	10735.7	9995.8
52.5°	10952.4	11113.1	11968.8	12918.0	12734.8	12200.5	11755.8	11509.2	12275.2	12477.0	11378.4
55°	8725.3	8867.3	9771.6	11139.3	11430.7	11841.8	12387.3	12974.0	14453.8	14588.3	12895.5
57.5°	7185.8	7264.2	7910.7	9226.0	9693.1	10694.6	12727.4	14715.3	16669.6	16875.2	14214.6
60°	5892.9	5978.8	6460.8	7544.5	8164.8	9054.1	12458.3	16434.2	19315.3	19315.3	15907.4
62.5°	4435.5	4510.3	4958.7	5806.9	6849.5	7664.1	11598.9	17573.9	21310.7	21221.0	17133.0
65°	3045.5	3105.2	3430.3	3994.6	4932.5	6531.8	10425.5	17588.9	22633.5	22513.9	17656.2
66°	2555.9	2608.3	2884.8	3340.7	4129.1	5926.5	10010.8	17271.3	22910.0	22741.9	17435.7
67.5°	2017.8	2055.2	2238.3	2507.4	3026.8	4798.0	9356.8	16370.7	22883.9	22783.0	16875.2
70°	1442.4	1468.5	1603.1	1659.1	1789.9	2776.4	7432.4	14337.9	21049.1	21079.0	14670.5
72.5°	1117.3	1158.4	1240.6	1251.8	1221.9	1476.0	4510.3	11961.3	17219.0	17207.7	10888.9
75°	900.6	923.0	964.1	986.5	979.0	952.9	1909.5	8923.4	11853.0	11991.2	6098.4
77.5°	710.0	706.2	743.6	773.5	795.9	747.4	874.4	5231.5	6214.2	6038.6	2290.6
80°	523.1	523.1	575.5	586.7	620.3	627.8	582.9	2017.8	2133.7	1939.4	594.1
82.5°	343.8	343.8	399.8	407.3	440.9	489.5	422.3	605.4	590.4	560.5	269.0
85°	186.8	179.4	198.0	224.2	242.9	287.7	254.1	302.7	310.2	306.4	179.4
87.5°	37.4	33.6	52.3	59.8	67.3	89.7	82.2	123.3	171.9	168.2	78.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6	4760.6
2.5°	4790.5	4786.8	4827.9	4876.5	4932.5	4966.1	4981.1	5007.2	4988.6	4996.0	5018.5
5°	4861.5	4872.7	4932.5	4996.0	5022.2	5003.5	4962.4	4947.5	4913.8	4906.4	4898.9
7.5°	4966.1	4984.8	5044.6	5059.6	4981.1	4850.3	4756.9	4704.6	4648.5	4633.6	4626.1
10°	5138.0	5149.2	5164.2	5011.0	4816.7	4641.0	4525.2	4476.6	4439.3	4409.4	4416.8
12.5°	5354.8	5347.3	5231.5	4913.8	4637.3	4457.9	4379.5	4349.6	4323.4	4304.7	4301.0
15°	5627.5	5575.2	5242.7	4779.3	4469.2	4319.7	4263.6	4252.4	4222.5	4222.5	4218.8
17.5°	5904.1	5769.5	5235.2	4637.3	4308.5	4226.3	4192.6	4185.2	4177.7	4174.0	4185.2
20°	6180.6	5941.4	5175.4	4461.7	4196.4	4147.8	4140.3	4144.1	4136.6	4147.8	4140.3
22.5°	6423.5	6053.5	5063.3	4274.8	4117.9	4114.2	4095.5	4103.0	4129.1	4132.8	4144.1
25°	6610.3	6094.6	4898.9	4103.0	4061.8	4054.4	4076.8	4106.7	4129.1	4132.8	4151.5
27.5°	6763.5	6072.2	4693.4	3968.4	3964.7	4005.8	4073.1	4084.3	4088.0	4088.0	4073.1
30°	6879.4	6023.6	4431.8	3819.0	3837.6	3938.5	4002.1	4002.1	3972.2	3964.7	3987.1
32.5°	6905.5	5960.1	4147.8	3665.8	3695.6	3815.2	3893.7	3867.5	3833.9	3833.9	3848.9
35°	6927.9	5874.2	3919.9	3456.5	3501.3	3643.3	3718.1	3665.8	3628.4	3617.2	3613.4
37.5°	6920.5	5840.5	3714.3	3191.2	3251.0	3389.2	3437.8	3389.2	3333.2	3307.0	3340.7
40°	6927.9	5818.1	3456.5	2899.7	2959.5	3041.7	3105.2	3067.9	3015.6	2948.3	2981.9
42.5°	6972.8	5848.0	3172.5	2615.7	2615.7	2660.6	2768.9	2742.8	2615.7	2589.6	2619.5
45°	7211.9	6008.7	2888.5	2331.7	2290.6	2320.5	2432.6	2320.5	2242.1	2242.1	2268.2
47.5°	7791.1	6307.6	2638.1	2081.4	1984.2	2044.0	2073.9	1969.3	1909.5	1894.5	1920.7
50°	8971.9	6905.5	2488.7	1875.8	1756.3	1801.1	1782.4	1778.7	1718.9	1726.4	1741.3
52.5°	10765.6	8071.4	2443.8	1775.0	1625.5	1636.7	1618.0	1625.5	1614.3	1651.6	1662.9
55°	12719.9	9300.8	2499.9	1789.9	1535.8	1457.3	1464.8	1502.2	1547.0	1606.8	1618.0
57.5°	14181.0	9917.3	2645.6	1890.8	1423.7	1304.1	1322.8	1393.8	1479.8	1528.3	1554.5
60°	15268.4	9842.6	2858.6	1917.0	1289.2	1165.9	1199.5	1304.1	1378.9	1420.0	1446.1
62.5°	15623.4	9375.5	2910.9	1726.4	1113.6	1035.1	1117.3	1225.7	1259.3	1304.1	1322.8
65°	15331.9	8714.1	2529.8	1401.3	979.0	937.9	1057.5	1139.7	1184.6	1207.0	1210.7
66°	14988.1	8318.0	2324.3	1274.2	930.5	908.0	1035.1	1102.3	1147.2	1143.4	1147.2
67.5°	14233.3	7488.5	1991.7	1094.9	859.5	863.2	997.7	1042.6	1057.5	1046.3	1046.3
70°	11666.1	5272.6	1427.4	829.6	754.8	807.1	896.8	908.0	941.7	926.7	926.7
72.5°	7193.2	2589.6	956.6	635.2	672.6	754.8	751.1	788.5	866.9	889.3	904.3
75°	3535.0	1050.0	631.5	538.1	601.6	631.5	624.0	717.5	829.6	926.7	960.3
77.5°	1341.5	523.1	440.9	470.8	485.8	474.6	497.0	650.2	829.6	1005.2	1038.8
80°	414.8	362.5	347.5	388.6	366.2	347.5	373.7	538.1	702.5	762.3	762.3
82.5°	250.4	284.0	269.0	265.3	246.6	250.4	269.0	384.9	541.8	568.0	568.0
85°	175.6	186.8	153.2	145.7	142.0	138.3	138.3	224.2	321.4	317.6	328.8
87.5°	67.3	74.7	56.1	56.1	52.3	37.4	29.9	37.4	37.4	26.2	18.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)